

IN THE CLAIMS:

1.-7. (Cancelled)

8. (Currently Amended) A sensor system for a floating head disk device by using a floating head, comprising:
a rotating disk having a data recording area;
a suspension member comprising first and second portions
coupled together;
a head element that floats mounted on the first portion for
floating over the data recording area of the disk so as to write
data thereon or read data therefrom;
a first actuator for moving the second portion to move the
head element over the data recording area of the disk;
a second actuator supported by the first actuator and
supporting the head element coupling the first and second
portions and for precisely positioning the head element against
over the data recording area of the disk by moving the first
portion in a radial direction of the disk; and
a means —resonance canceler for canceling a torsional
resonance generated between the head element and the second

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actuator, first and second portions, by applying to the second actuator a signal having a phase opposite to that a phase of a signal generated by the second actuator when the head element is floating.

9.-11. (Cancelled)

12. (Currently Amended) A sensor system for a floating head disk device by using a floating head, including a single-plate servo writer, said servo writer comprising:

a rotating disk having a data recording area;
a suspension member comprising first and second portions
coupled together;

a head element that floats mounted on the first portion for
floating over a data recording area of a rotating the disk so as
to write servo information thereon or read servo information
therefrom;

a first actuator for moving the second portion to move the
head element mounted on the first portion over the data
recording area of the disk; and

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a second actuator supported by the first actuator and supporting the head element coupling the first and second portions and for precisely positioning the head element against over the data recording area of the disk by moving the first portion in the radial direction of the disk; and

a means resonance canceller for canceling a torsional resonance generated between the head element and the second actuator first and second portions, by applying to the second actuator a signal having a phase opposite to that a phase of a signal generated by the second actuator when the head element is floating.